To: Groher, Daniel M CIV USARMY CENAE (US)[Daniel.M.Groher@usace.army.mil]
Cc: Wolf, Steven H CIV USARMY CENAE (US)[Steven.Wolf@usace.army.mil]; Morris, Mike (Bourne)[Mike.Morris@jacobs.com]; ellen iorio[Maryellen.Iorio@usace.army.mil]; Lederer, Dave[Lederer.Dave@epa.gov]
From: Dickerson, Dave
Sent: Fri 5/5/2017 2:09:17 PM
Subject: RE: Draft proposal for data collection for interim cap

Thanks Dan, I've just about cleared the decks so that this is next up. Apologies for the delay.

Was thinking it might be time to start a weekly or bi-weekly meeting on this. Thoughts, comments, anyone?

Dave

David J. Dickerson

Remedial Project Manager

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From: Groher, Daniel M CIV USARMY CENAE (US)
[mailto:Daniel.M.Groher@usace.army.mil]
Sent: Thursday, May 04, 2017 4:54 PM
To: Dickerson, Dave <dickerson.dave@epa.gov>
Cc: Wolf, Steven H CIV USARMY CENAE (US) <Steven.Wolf@usace.army.mil>

Subject: FW: Draft proposal for data collection for interim cap

Hi Dave

Just wanted to check in about this "draft" approach that Mike sent you a couple of weeks ago. Does it sound right to you?

I also wanted to mention some research we've done on gas ebullition "testing". I spoke at length with Paul Schroeder at ERDC about lab testing related to gas ebullition. Paul and his associates at ERDC have done a fair amount of bench-scale tests on the impacts of gas ebullition; but that testing is NOT to determine gas ebullition rates. He thinks that in-situ measurement of ebullition rates is much more useful (i.e, accurate). There is just too much disturbance when collecting samples or cores and then trying to re-create conditions similar to in-situ. The lab testing that they have performed is typically to assess NAPL transport due to gas ebullition, and that is done after you have a reasonable estimate of rates. They simulate in-situ rates of gas transport using compressed gases in the lab, and then observe changes to the cap and NAPL transport. When they do this, they use 6-inch diameter or larger cores, plus a cap that simulates the intended remediation design.

Megan Burke, the intern that accompanied us to the March meeting at New Bedford, has some some research and found a couple of pretty straightforward in-situ measurement systems for trapping bubbles and quantifying gas emissions. We will put together a proposed plan for doing some testing at New Bedford, and send it to you next week.

Feel free to contact me with any questions or comments.

Dan

Daniel Groher

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From: Morris, Mike (Bourne) [mailto:Mike.Morris@jacobs.com]
Sent: Thursday, April 20, 2017 10:19 AM
To: Dave Dickerson (dickerson.dave@epa.gov) <dickerson.dave@epa.gov>
Cc: Groher, Daniel M CIV USARMY CENAE (US) <Daniel.M.Groher@usace.army.mil>; Wolf, Steven H CIV USARMY CENAE (US) <Steven.Wolf@usace.army.mil>; Rigassio-Smith, Anita <Anita.Rigassio-Smith@jacobs.com>
Subject: [Non-DoD Source] Draft proposal for data collection for interim cap

Dave,

We put this preliminary proposal together to address items 2 and 4 on Steve Wolf's memo of March 31st. It covers the rough draft of the proposed data gap/data collection for completing the groundwater model to design the interim Aerovox cap. We can discuss further when Dan and Steve return to the office next week. Please let me know if you have any questions.

Thanks,

Mike

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